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## INFORMATION DISCLOSURE STATEMENT BY APPLICANT

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pond to a collection of information unless it contains a valid OMB control number Complete if Known Application Number 10/667.685 Filing Date 09/22/2003 First Named Inventor Mark Heldreth Art I Init 3733 Examiner Name Anuradha Ramana Attorney Docket Number DEP777NP

Examiner Initials*	Cite No. <sup>1</sup>	Document Number  Number-Kind Code <sup>2 (FAncers)</sup>	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		<sup>∪S-</sup> 5033291	07/23/1991	Podoloff, et al	
		US- 4856993	08/15/1989	Maness, et al	•••
		US- 5197488	03/30/1993	Kovacevic, Nebojsa	
		<sup>US-</sup> 5360016	11/01/1994	Kovacevic, Nebojsa	***************************************
		US- 5496352	03/05/1996	Renger, Herman L.	
		US- 5470354	11/28/1995	Hershberger, et al	
	1	<sup>US-</sup> 5425775	06/20/1995	Kovacevic, et al	
		<sup>US-</sup> 6174294	01/16/2001	Crabb, et al	
		<sup>US-</sup> 5197488	03/30/1993	Kovacevic, Nebojsa	
	1	US- 5326363	07/05/1994	Aikins, Jerry L.	
	Ī	<sup>US-</sup> 5360016	11/01/1994	Kovacevic, Nebojsa	
		<sup>US-</sup> 5425775	06/20/1995	Kovacevic, et al	
		<sup>US-</sup> 5840047	11/24/1998	Stedham, David M.	
	1	US-			
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		US-			
		US-			
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	FOREIGN PATENT DOCUMENTS									
Examiner Initials*	Cite No.1	Foreign Patent Document  Country Code <sup>3</sup> (Number <sup>4</sup> (Kind Code <sup>6</sup> (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	Т6				
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				Application Number	10/667,685
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STATEMENT BY APPLICANT				First Named Inventor	Mark Heldreth
				Art Unit	3733
	(Use as many sheets as	necessary	)	Examiner Name	Anuradha Ramana
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NON PATENT LITERATURE DOCUMENTS							
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		HARRIS, M.L., ET AL, "An Improved Method for Measuring Tibiofemoral Contact Areas in Total Knee Arthroplasty: A Comparison of K-Scan Sensor and Fuji Film," Journal of Biomechanics (1999), 32 ed., p. 951-958,					
		SZIVEK, JOHN A., PHD., ET AL, "Average and Peak Contact Stress Distribution Evaluation of Total Knee Arthroplasties," The Journal of Arthroplasty (1996), Vol. 11 (No. 8), p. 952-963,					
		BEHRENS, FRED M.D., ET AL, "Bendign Stiffness of Unilateral and Bilateral Fixator Frames," Clinical Orthopaedics and Related Research (September 1983), p. 103-110,					
		VALDEVIT, ANTONIO, ET AL, "Characterization and Application of Think Film Pressure Sensors," Bio-Medical Materials and Engineering (1999), p. 81-88,					
		GOLA, M.M., ET AL, "Developments in Transducer Stems for Mechanical Coupling Measurements in Endoprosthetics," MEP Ltd. (1982), Vol. 11 ( No. 4), p. 183-186,					
		AN, KAI-NAN ET AL, "Direct In Vivo Tendon Force Measurement System," J. Biomechanics (1990), Vol. 23 (No. 12), p. 1269-1271,					
		FILIAGGI, MARK J., ET AL, "Evaluating Sol-Gel Ceramic Thin Films for Metal Implant Applications. II Adhesion & Fatigue Properties of Zirconia Films on Ti-6A1-4V," Journal of Biomedical Materials Research (Applied Biomaterials) (1996), p. 299-256,					
		KAUFMAN, KENTON R., ET AL, "Instrumented Implant for Measuring Tibiofemoral Forces (1996)," Journal Biomechanics, Vol. 29 ( No. 5), p. 667-671,					
		MARKOLF, KEITH L., PH.D., ET AL, "In Vitro Measurement of Bone-Aerylie Interface Pressure During Femoral Component Insertion," Clinical Orthopaedics and Related Research (November-December, 1976), p. 60-66,					
		ENGLISH, T.A., ET AL, "In Vivo Records of Hip Loads Using a Femoral Implant with Telemetric Output (A Preliminary Report)," Journal Biomedical Engineering (April 1979), Vol. 1 ( No. 2), p. 111-115,					

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Examiner	Date	
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Sheet	2	of	-4	Attorney Docket Number	DEP777NP	_

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		OH, INDONG, M.D., ET AL, "Proximal Strain Distribution in the Loaded Femur," The Journal of Bone and Joint Surgery (January 1978), Vol. 60A (No. 1), p. 75-85,					
		TAKAHASHI, TOSHIAKI ET AL, "Soft Tissue Balancing with Pressure Distribution During Total Knee Arthroplasty," The Journal of Bone and Joint Surgery (March 1997), p. 235-239,					
		DAVY, D.T., ET AL, "Telemetric Force Measurements Across the Hip after Total Arthroplasty," The Journal of Bone and Joint Surgery (January 1988), Vol. 70A ( No. 1), p. 45-50,					
		BROWN, RICHARD H., ET AL, "Telemetering In Vivo Loads from Nail Plate Implants," Journal Biomechanics (1982), Vol. 15 (No. 11), p. 815-823,					
		LAU, J.J., ET AL, "The Influence of Inserting of Fuji Pressure Sensitive Film Between the Tibiofemoral Joint of Knee Prosthesis on Actual Contact Characteristics," Clinical Biomechanics (2001), p. 160-166,					
		GUPTA, SUSHI K., M.D., ET AL, "Use of Piezoelectric Film Sensor for Monitoring Vascular Grafts," The American Journal of Surgery (August 1990), p. 182-186,					
		MCDERMOTT, A.G.P., M.D., ET AL, "A New Method to Measure Intraosseous Pressures," Clinical Orthopaedics and Related Research (July 1986), p. 25-27,	***************************************				
		MANN, R.W., ET AL, "Rehabilitation Implications of In Vivo Hip Pressure Measurements," Proceedings of the Ninth Annual Conference on Rehabilitation Technology (Une 23-26, 1986), Association for the Advancement of Rehabilitation Technology (Minneapolis, Minnesota (Copyright 1986)),					
		RUSHFELDT, P.D., ET AL, "Improved Techniques for Measuring In Vitro The Geometry and Pressure Distribution in the Human Acetabulum – II. Instrumented Endoprosthesis Measurement of Articular Surface Pressure Distribution," J. Biomechanics, Vol. 14 (No. 5), p. 315-325.					
		CARLSON, CHARLES E., ET AL, "A Look at the Prosthesis-Cartilage Interface: Design of a Hip Prosthesis Containing Pressure Transducers," J. Biomedical Material Research Symposium (1974), John Wiley & Sons, Inc., p. 261-26					

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		HODGE, W.A., M.D., ET AL, "Contact Pressures from an Instrumented Hip Endoprosthesis," The Journal of Bone and Joint Surgery Incorporated (October 1989), Vol. 71A (No. 9), p. 1378-1386,					
		JOHNSON, WESLEY D., ET AL, "Test Methodology: Evaluation of Load Transfer Across a Total Knee Replacement," Spring National Design Engineering Show & Conference, p. 131-138,					
		BEREITER, H., M.D., ET AL, "Telemetric Measurement of the Pressure Conditions in the Interface of an Implanted Acetabulum Prosthesis (In-Vivo)," Rhatisches Kantonsspatal Chur, Institut fur Physik Basel, Orthopadische Universitatsklint Basel,					
		WASIELEWSKI, RAY C. "Declaration" unpublished, dated 8/22/07					
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